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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,165	07/08/2003	Hsi Yang Lin	MR1957-755	6500

4586 7590 06/07/2005

ROSENBERG, KLEIN & LEE  
3458 ELLICOTT CENTER DRIVE-SUITE 101  
ELLICOTT CITY, MD 21043

EXAMINER
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HUYNH, CHUCK

ART UNIT	PAPER NUMBER
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2683

DATE MAILED: 06/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

10/614,165

Applicant(s)

LIN, HSI YANG

Examiner

Chuck Huynh

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 08 July 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-4 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-4 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Larsson et al (hereinafter Larsson) in view of Schmitt et al. (hereinafter Schmitt).

Regarding claim 1, Larsson discloses an integrated wireless and wired hands-free device for a mobile phone, comprising;

a blue-tooth wireless transceiving module used to receive and output an incoming signal and send out an activation control signal (Col 2, lines 28-29, 44-45);

an audio mix switch used for receiving said activation, control signal to switch a voice transmission channel to be used by said blue-tooth wireless transceiving module for receiving and transmitting said incoming signal from said blue-tooth wireless transceiving module (Col 8, lines 34-38);

Although Larsson discloses all the particulars of the claim, Larsson is shy on disclosing:

a control device used to receive and transmit said incoming signal from said audio mix switch;

a loudspeaker used to receive said incoming signal from said control device for output to be heard by a user;

a microphone used to receive and transmit an intercom voice signal of the user, said intercom voice signal being transmitted through said control device, said audio mix switch and said blue-tooth wireless transceiving module and finally sent out by said blue-tooth wireless transceiving module;

a wired transmission device connected to said audio mix switch, said wired transmission device being connected to a mobile phone Without the wireless transmission function so that said mobile phone can accomplish voice transmission via said wired transmission device, said voice transmission channel being used by said wired transmission device to accomplish reception of an incoming call and intercommunication of said mobile phone when said blue-tooth wireless transceiving module does not send out said activation control signal to said audio mix switch.

However, Schmitt does disclose:

a control device used to receive and transmit said incoming signal from said audio mix switch (Col 2, lines 63-67; Fig. 1);

it would have been obvious to one ordinarily skilled in the art at the time of invention to have a control device to regulate radio signals to provide voice transmission;

a loudspeaker used to receive said incoming signal from said control device for output to be heard by a user (Abstract; Fig. 3; Col 5, lines 38-40);

it would have been obvious to one ordinarily skilled in the art at the time of invention to use a vehicle's speakers to provide a more robust audio output for the user within a vehicle;

a microphone used to receive and transmit an intercom voice signal of the user, said intercom voice signal being transmitted through said control device, said audio mix switch and said blue-tooth wireless transceiving module and finally sent out by said blue-tooth wireless transceiving module (Col 2, lines 62-67);

it would have been obvious to one ordinarily skilled in the art at the time of invention to provide a transducer for receiving voice input for communication;

It is well known in the art that the mobile phone be connected electrically (by use of a cradle or a wire) to an existing hands-free car kit system that provides telecommunication to the user. In this case it would have been obvious to implement a wired transmission device connected to said audio mix switch, said wired transmission device being connected to a mobile phone without the wireless transmission function so that said mobile phone can accomplish voice transmission via said wired transmission device, said voice transmission channel being used by said wired transmission device to accomplish reception of an incoming call and intercommunication of said mobile

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phone when said blue-tooth wireless transceiving module does not send out said activation control signal to said audio mix switch (Col 1, lines 28-33).

It would have been obvious to one ordinarily skilled in the art at the time of invention to wire the mobile phone to a hands-free vehicle telecommunication system to provide mobile hands-free communication within the vehicle.

Regarding claim 2, Schmitt discloses the integrated wireless and wired hands-free device for a mobile phone as claimed in claim 1, wherein said incoming signal is received by an antenna and transmitted to said blue-tooth wireless transceiving module, and said blue-tooth wireless transceiving module transmits said intercom voice signal to said antenna for emission (Col 4, lines 63-67 – Col 5, lines 1-8).

Regarding claim 3, Schmitt discloses the integrated wireless and wired hands-free device for a mobile phone as claimed in claim 1, wherein a loudspeaker volume adjustment device is further provided to adjust the output volume of said loudspeaker (Fig. 1).

Regarding claim 4, Schmitt discloses the integrated wireless and wired hands-free device for a mobile phone as claimed in claim 1, wherein said microphone is an external one and can be placed in an appropriate position in a car (Col 4, lines 64-66).

**Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuck Huynh whose telephone number is 571-272-7866. The examiner can normally be reached on M-F 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Trost can be reached on 571-272-7872. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chuck Huynh

  
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